

Infitek

HOMOGENIZER



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VERSION.2025

Homogenizer

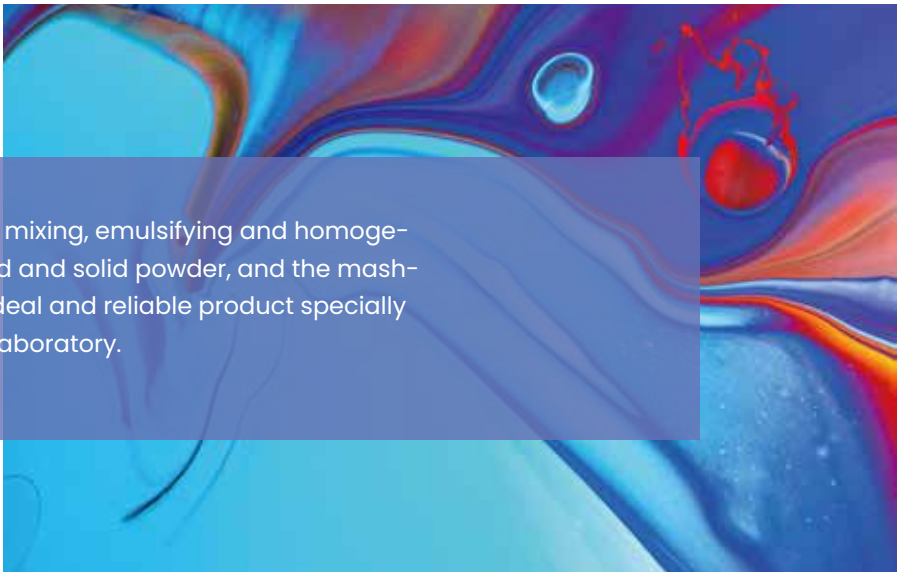
HMG-6

Note:
The machine can not be operated
for a long time and needs to be
used intermittently.



Application

HMG-6/HMG-6B product is suitable for mixing, emulsifying and homogenizing between liquids, dispersing liquid and solid powder, and the mashing and pulping of tissue cells. It is an ideal and reliable product specially designed for micro-processing in the laboratory.



It can be used in pharmaceutical, biochemical, food, nanomaterial, coatings, adhesives, daily chemicals, printing and dyeing, petrochemicals, paper chemistry, polyurethane, inorganic salts, asphalt, organic silicon, pesticides, water treatment, heavy oil emulsification, diesel emulsification, electronics, batteries and other industries.

It is also an ideal product for applications in scientific research, product development, quality control and production processes in factories, scientific research institutions, colleges, and medical institutions.

Features



One-handed control, humanized operation, exquisite motor contains super power, and the experimental effect is more ideal



Double insulation protection to ensure safety



The speed regulating base adopts stepless speed regulator, which is convenient for speed regulation and stable operation.



The working head is connected with the driving motor by coupling, which is simple and flexible






All parts of the working head contacting materials are made of high-quality stainless steel with good corrosion resistance



Packing list

Name	Quantity
Host	1
Tool bit	1
Warranty Card (including Qualified Certificate)	1
Manual	1

Optional tool bit

Tool bit	Specif-ication	Processing capacity (ml)	Viscosity (mPa·s)	Linear velocity(m/s)	Length of tool bit (mm)	Diameter of tool bit(mm)
	6G	0.2-30	4000	6	152	6
	8G	5-200	4500	8	154	8
	10G	10-300	5000	10	155	10






Specifications

Model	HMG-6
Range of rotation	10000-35000r/min
Processing capacity	0.2ml-300ml (H2O)
Standard working head	10G
Processing viscosity	5000mPa·s
Power	160W
Rotation speed control	6-speed
Contact material material	SUS304
Material of shaft sleeve entering material part	PTFE
Allowable relative humidity	80%
Type of working procedure	Micro-batch processing
Weight	1kg
Power supply	220V 50HZ
Optional working head configuration	6G,8G,10G
Optional bracket	Single column bracket

Homogenizer

HMG-160

Features

-  Ideal for manual operation due to its light weight and ergonomic design.
-  Processing range: 0.1-50mL or 1-250mL.
-  316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions.
-  All shafts are interchangeable for easy dismantling and cleaning.
-  Speed from 8,000rpm to 32,000 rpm.

Description

The sample is cyclically introduced into the narrow space between the stator and rotor moving relatively at high speed, and is rapidly sheared and broken. Tissues like muscle, liver, breast, etc. can be completely homogenized in 10-30 seconds.

It can be used in biopharmaceuticals, genetic research, tissue fragmentation, cytoplasmization, pathological analysis, oil-water emulsification, nanomaterial dispersion, dairy homogenization, polymerization, daily cosmetics, ink coatings, fine chemicals, pesticides, prospecting, environmental protection , energy and other fields.




Specifications

Model	HMG-160
Power Supply	110V-120V/60Hz 220-240V/ 0-60 Hz
Motor Type	Universal motor
Motor Power	160 W AC carbon brush motor
Speed Range	8000rpm-32000rpm
Max. Circum. Speed	6.3-14m/sec
Speed Control	Dial knob
Working Volume (H ₂ O)	0.1-50mL (Dispersing shaft DS-160/5) 1-250mL (Dispersing shaft DS-160/10)
Max. Viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Weight	0.54 kg
Gross Weight	3.9kg
Dimension (L×W×H)	45mm×55mm×190mm
Package Dimension (W×D×H)	500*270*270mm
Noise	72 dB(A)
Operating Environment	0-40 C , 85% rel. humidity
Protection Class	IP20

Combination

Cat. No.	Function	Treatable Volume (refer to water)
18900543	dispersing tool for solid/liquid media	0.1-50ml
18900544	dispersing tool for solid/liquid media	1-250ml

Cat. No.
18900543



Volume 0.1-50ml
Max. Circum. Speed 6.3m/sec
Material: 316L
Application: small amounts of solid-liquid mixed

Cat. No.
18900544



Volume 1-250mL
Max. Circum. Speed 14m/sec
Material: 316L
Application: small amounts of solid-liquid mixed

Homogenizer, Digital Benchtop Type


LC-8 LC-9 LC-H11L


Aseptic homogenizer, also known as beating homogenizer, is widely used in homogenization treatment of animal tissues and biological samples.

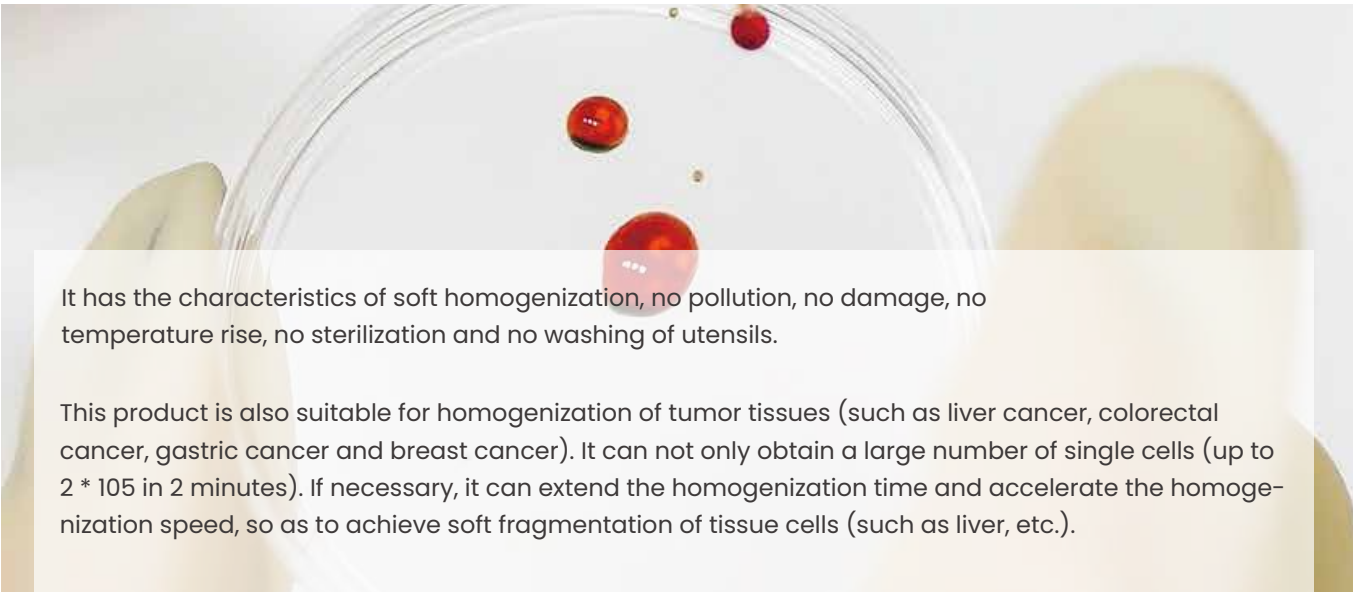
It can be used in food, drug, cosmetics, clinical, molecular, toxin and bacterial detection fields, especially for the preparation of microbial test samples.



Features

 The device can effectively separate the surface of solid sample and the microorganisms contained in it. The sample is packed in a disposable sterile homogenization bag without contacting with the instrument.

 It meets the requirements of fast, accurate results and good repeatability.



It has the characteristics of soft homogenization, no pollution, no damage, no temperature rise, no sterilization and no washing of utensils.

This product is also suitable for homogenization of tumor tissues (such as liver cancer, colorectal cancer, gastric cancer and breast cancer). It can not only obtain a large number of single cells (up to 2 * 105 in 2 minutes). If necessary, it can extend the homogenization time and accelerate the homogenization speed, so as to achieve soft fragmentation of tissue cells (such as liver, etc.).

Specifications

Model	LC-H11L (Heating sterilization type)	LC-9 (Sterile type)	LC-8 (Standard type)
Control mode	Microcomputer control	Microcomputer control	Microcomputer control
Parameter storage	8-segment combination programming	8-segment combination programming	8-segment combination programming
Display mode	4.3 inch touch screen display	4.3 inch touch screen display	4.3 inch touch screen display
Operation mode	touch screen	touch screen	touch screen
Slap Time	1s-99H59M59S or continuous operation	1s-99H59M59S or continuous operation	1s-99H59M59S or continuous operation
Clapper Material	Stainless steel with special extrusion protective cover	Stainless steel with special extrusion protective cover	Stainless steel with special extrusion protective cover
Slap speed	3-12 times / S	3-12 times / S	3-12 times / S
Heating function	Yes	-	-
Temperature range	Room temperature - 80 C	-	-
Disinfection function	Yes,the disinfection wavelength is 253.7nm	Y,the disinfection wavelength is 253.7nm	-
Effective volume	3~400ml	3~400ml	3~400ml
Aseptic bag size	17*30cm	17*30cm	17*30cm
Tank body	Stainless steel with anticorrosive plastic spraying	Stainless steel with anticorrosive plastic spraying	Stainless steel with anticorrosive plastic spraying
Slap spacing	0~50mm	0~50mm	0~50mm
Startup mode	slow-start	slow-start	slow-start
Pause function	Yes	Yes	Yes
Power	220V/500W	220V/220W	220V/200W
Anti pinch function	With automatic stop anti pinch function	With automatic stop anti pinch function	With automatic stop anti pinch function
Other function	Removable window with terpering glass	Removable window with terpering glass	Removable window with terpering glass
Voice prompt function	Yes	Yes	Yes
Size	420*230*330mm	420*230*330mm	420*230*330mm
Weight (net weight)	19KG	18.5KG	18KG
Outer package size	540*310*410	540*310*410	540*310*410

Homogenizer

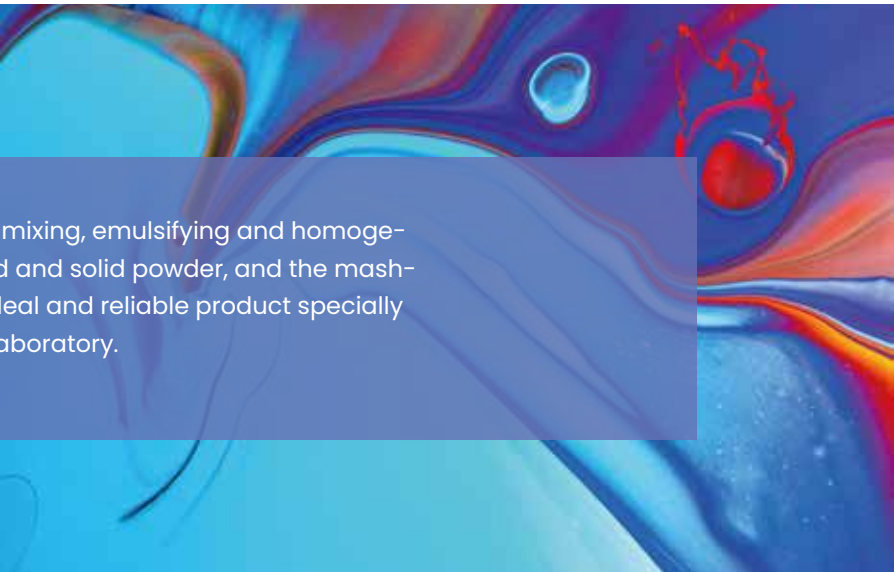
HMG-6B



Note:
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Packing list

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Host	1
Tool bit	1
Warranty Card (including Qualified Certificate)	1
Manual	1

Optional tool bit

Tool bit	Specif-ication	Processing capacity (ml)	Viscosity (cp)	Linear velocity(m/s)	Length of tool bit (mm)	Diameter of tool bit(mm)
	6G	0.2-50	100	5	125	6
	8G	10-60	500	8	150	8
	10G	30-150	2000	10	185	10
	6G-ST	0.2-50	100	5	125	6
	8G-ST	10-60	500	8	150	8
	10G-ST	30-150	2000	10	185	10

Specifications

Model	HMG-6B
Range of rotation	1000-32000r/min
Processing capacity	0.2-150ml (H2O)
Standard working head	10G
Processing viscosity	2000mpas
Power	120W
Rotation speed control	6-speed
Contact material material	SS316L
Material of shaft sleeve entering material part	PTEE
Allowable relative humidity	80%
Type of working procedure	Micro-batch processing
Weight	2kg
Power supply	220V 50HZ
Optional working head configuration	HR-6G HR-8G HR-6GST HR-8GST HR-10GST
Optional bracket	Single column bracket

Homogenizer

HMG-25 HMG-25D



Note:
The machine can not be operated for a long time and needs to be used intermittently.

HMG-25

HMG-25D

Application

It is a precision-engineered system designed for sample homogenization and emulsification. Compatible with multiple interchangeable work heads of varying specifications, it enables rapid sample dispersion, homogenization, emulsification, suspension, and mixing. It has been used in different fields of biological tissue processing (animal/plant cell disruption), pharmaceutical formulation, cosmetic emulsion, food technology, chemical synthesis.





















Features

- Interchangeable work heads (multiple specifications) for 0.2~10,000mL processing capacity, adaptable to diverse sample requirements.
- Compact ergonomic design, delivering 27m/s linear velocity for precision homogenization.
- Integrated vertical adjustment system with dual-axis support rod and bifurcated clamp ensures safety-critical operation.
- Stepless speed control, up to 30,000 rpm with smooth acceleration control, offers 6 preset speed profiles. (HMG-25)
- Continuously adjustable speed from 4,000 to 26,000 rpm, with programmable timer (0~999 min) enabling automatic shutdown upon completion. (HMG-25D)
- Optional thermocouple probe provides real-time sample temperature monitoring; auto-stop at preset threshold prevents thermal degradation and ensures experimental safety. (HMG-25D)

Specifications

Model	HMG-25	HMG-25D
Type	Basic	Digital
Speed Range	7500~30000rpm	4000~26000rpm
Speed Range (H ₂ O)	7500~26000rpm	4000~21000rpm
Speed Accuracy	No data	±100rpm
Speed Control	Gear adjustment	Knob adjustment
Capacity	0.2~10000ml (Optional)	0.2~10000ml (Optional)
Time Display	No Data	LCD
Standard Configuration	Machine+working head+stand	Machine+working head+stand
Standard Working Head	25G	25G
Electricity	200~240V (optional 110V), 50~60Hz	200~240 (optional 110V), 50~60Hz
Motor Type	DC Brushless motor	DC Brushless motor
External Dimension	410*φ90mm	365*φ90mm
Net Weight	2.6kg	2.5kg
Package Dimension	803*400*140mm	810*410*150mm
Set Gross Weight	8kg	13kg

Compatible Working Heads (Optional)

Specification			Processing Capacity (ml)	Viscosity (cP)	Stator Diameter (mm)	Linear Speed (m/s)	Material	Functional Description
6G			0.2-10	100	6	6	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
8G			1-60	100	8	8	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
10G			10-150	200	10	10	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
18G			50-1500	3000	18	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
18F			100-1500	2000	18	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-low viscosity systems.
20G			50-1500	3000	20	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
20F			50-1500	3000	20	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25GST			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25G			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25F			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-low viscosity systems.
25DG			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. under vacuum and pressurized environments.
25DF			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. under vacuum and pressurized environments.
25JX			100-5000	8000	25	35	316	Vertical convection shear mixing, suitable for medium-shear dispersion and solid/liquid mixing.
25JQ			100-5000	8000	25	35	316	Vertical convection shear mixing, suitable for medium-shear dispersion and solid/liquid mixing.
25T1			100-5000	8000	25	27	316	Rapid liquid-liquid mixing and dissolution of suspended powders in medium viscosity systems.
25T2			100-5000	5000	25	27	316	Rapid liquid-liquid mixing and dissolution of suspended powders in medium viscosity systems.
25T3			100-5000	5000	25	27	316	Solid/liquid dispersion mixing, suitable for wet grinding, effectively reducing material size and increasing uniformity.
25T4			100-5000	5000	25	27	316	Ultra-strong dispersion and tissue disruption, suitable for pulverization, homogenization, dispersion, and shearing of animal and plant tissues.
25T5			100-5000	5000	25	27	316	Suitable for dispersion and homogenization in medium-high viscosity systems.
25T6			100-5000	5000	25	27	316	Ultra-high-speed stirring, suitable for dissolution and dispersion in medium-high viscosity systems.

Homogenizer

HMG-500C HMG-500D

Application

It's mainly used in industries such as pharmaceuticals, biochemistry, food, nanomaterials, coatings, adhesives, daily chemicals, printing and dyeing, petrochemicals, paper chemistry, polyurethane, inorganic salts, silicone, asphalt, pesticides, water treatment, heavy oil emulsification, etc.

Note:
The machine can not be operated for a long time and needs to be used intermittently.

Specifications



Model	HMG-500C	HMG-500D
Speed Range	10000-31000rpm	10000-31000rpm
Processing Capacity	0.2ml~7000ml (H2O)	0.2ml~7000ml (H2O)
Standard Working Head	25G	25G
Max. Viscosity	5,000cP	5,000cP
Speed Display	Graduate display	LCD display
Speed Control	Stepless Regulation	Stepless Regulation
Material-Contact Parts	316L Stainless steel	316L Stainless steel
Immersion Shaft Sleeve	PTFE	PTFE
Operating Temperature	≤120 ℃	≤120 ℃
Ambient Temperature Range	5~40 ℃	5~40 ℃
Max. Relative Humidity	80%	80%
Process Type	Batch processing	Batch processing
Electricity	220V, 50/60Hz	220V, 50/60Hz
Input Power	500W	500W
Host Net Weight (excl. working head)	3 kg	3 kg
Host Gross Weight	3.7kg	4 kg
Host Dimensions (L × Ø)	275*65 mm	275*65 mm

When used with compatible blade heads, the parameters will not exceed the machine's specified limits: a maximum processing capacity of 7,000 mL (H2O) and a maximum viscosity of 5,000 cP.



Features

Convenient & Stable Performance

Equipped with a high-quality motor, it ensures smoother operation, lower noise, and supports extended running times.

A variety of interchangeable work heads are available to meet demanding dispersion, emulsification, and homogenization experimental requirements.

High-Efficiency Shearing & Precise Processing

With a rotational speed of up to 31,000 rpm and compatible with over 20 work heads.

The high-speed rotor combined with the precision stator chamber generates intense hydraulic shearing, centrifugal extrusion, and high-speed impact/collision. This thoroughly disperses, emulsifies, homogenizes, pulverizes, and mixes materials, ultimately yielding a stable, high-quality product.

High-Performance Motor & Robust Design

Equipped with a premium motor for stable operation, lower noise, and extended running times.

Features a safe and reliable design.

Premium Corrosion-Resistant Materials

All material-contact parts of the work head are constructed from high-quality stainless steel, offering good corrosion resistance.























Quick-Release Coupling for Easy Maintenance

The work head connects to the drive motor via a coupling, enabling quick and easy disassembly and assembly.

Stepless Speed Control for Precision

Adopt stepless speed controller, precise speed regulation and stable operation.

Compatible Working Heads (Optional)

Specification			Processing Capacity (ml)	Viscosity (cP)	Stator Diameter (mm)	Linear Speed (m/s)	Material	Functional Description
6G			0.2-10	100	6	6	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
8G			1-60	100	8	8	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
10G			10-150	200	10	10	316	Suitable for dispersion, fragmentation, homogenization of animal and plant tissues.
18G			50-1500	3000	18	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
18F			100-1500	2000	18	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-low viscosity systems.
20G			50-1500	3000	20	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
20F			50-1500	3000	20	19	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25GST			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25G			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-high viscosity systems.
25F			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. in medium-low viscosity systems.
25DG			100-5000	5000	25	27	316	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsion polymerization, silicone oil emulsification, homogenization, etc. under vacuum and pressurized environments.
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25T5			100-5000	5000	25	27	316	Suitable for dispersion and homogenization in medium-high viscosity systems.
25T6			100-5000	5000	25	27	316	Ultra-high-speed stirring, suitable for dissolution and dispersion in medium-high viscosity systems.
30JX			250-10000	15000	30	47	316	Suitable for paste, fibrous materials, liquids.
30JQ			250-8000	15000	30	47	316	Suitable for paste, fibrous materials, liquids.